AI Planning
Exercise Sheet 6

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Exercise 6.2

- is important to test for stability in computing h_{add}! The reason for this is that, unlike h_{max}, cost values of true propositions can decrease from layer to layer.

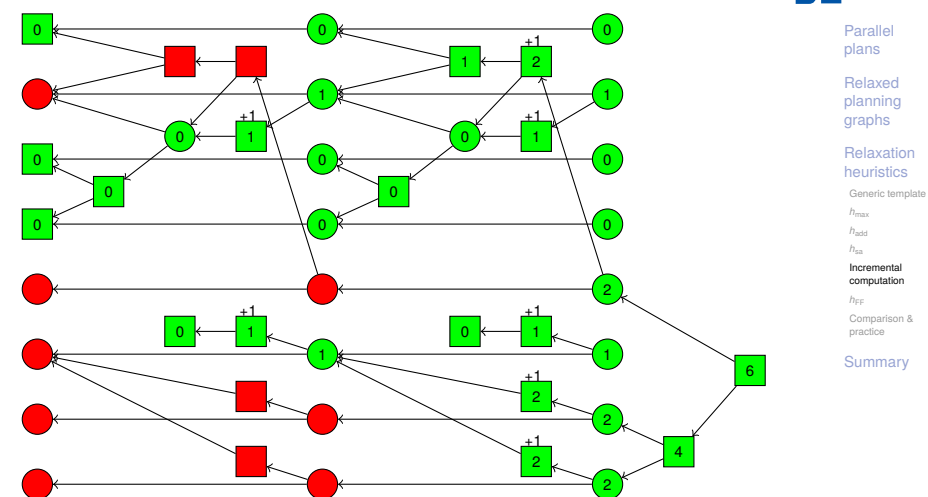- Stability is archieved after layer $|A|$ in the worst case.

Example for an overestimation:

Figure 1: Overestimation of h_{add}, Source: Lecture Script
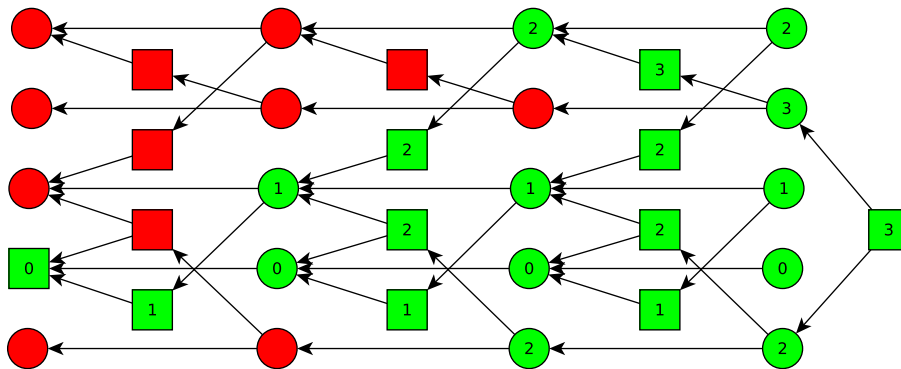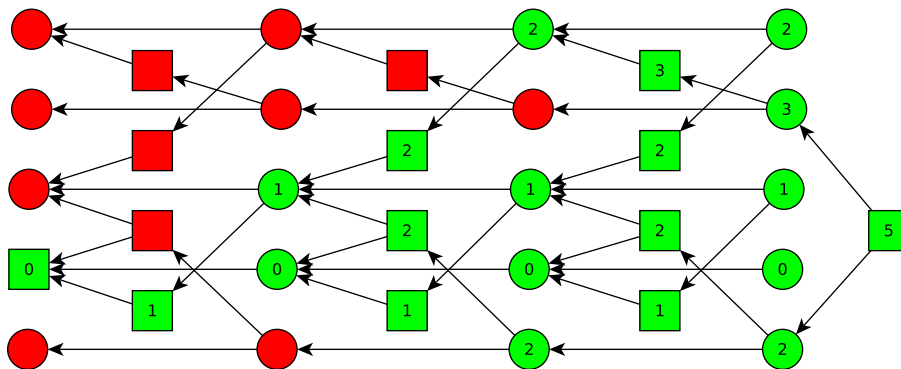
Exercise 6.3

Relaxed planning graph with depth 3. (Sparse labeling due to technical restrictions.)
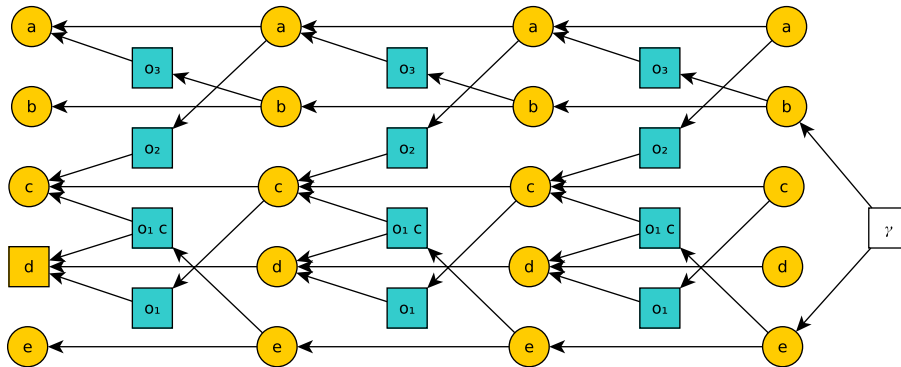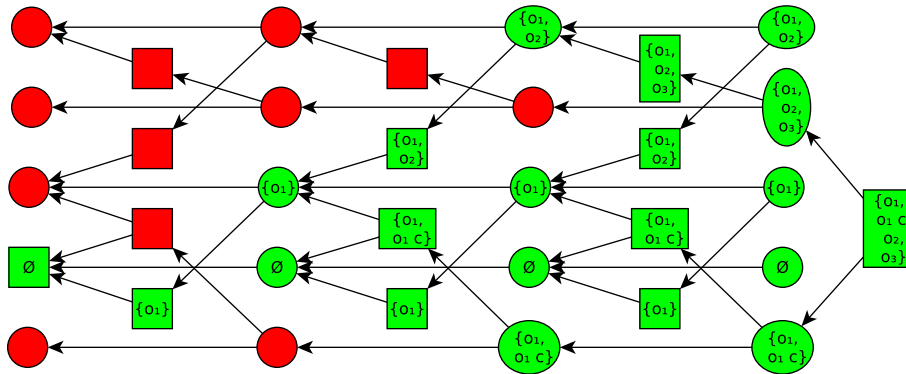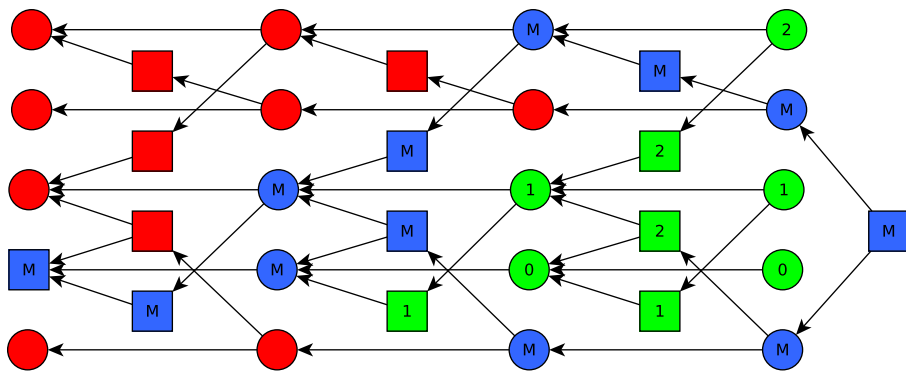

(a) $h_{max}(s) = 3$

(b) $h_{add}(s) = 5$

(c) $h_{sa}(s) = 4$

(d) $h_{FF}(s) = 4$

Exercise 6.1